Name: Date:

FOIL when $A \neq 1$ solution (version 8)

FOIL the expressions shown below:

1. $(-3x + 9)(-6x - 8)$

$$(-3)(-6)x^2 + (-3)(-8)x + (9)(-6)x + (9)(-8)$$
$$(18)x^2 + (24)x + (-54)x + (-72)$$
$$18x^2 - 30x - 72$$

2. $(6x + 7)(-8x - 9)$

$$(6)(-8)x^2 + (6)(-9)x + (7)(-8)x + (7)(-9)$$
$$(-48)x^2 + (-54)x + (-56)x + (-63)$$
$$-48x^2 - 110x - 63$$

3. $(-6x - 6)(-2x + 4)$

$$(-6)(-2)x^2 + (-6)(4)x + (-6)(-2)x + (-6)(4)$$
$$(12)x^2 + (-24)x + (12)x + (-24)$$
$$12x^2 - 12x - 24$$

4. $(-2x - 3)(-7x + 7)$

$$(-2)(-7)x^2 + (-2)(7)x + (-3)(-7)x + (-3)(7)$$
$$(14)x^2 + (-14)x + (21)x + (-21)$$
$$14x^2 + 7x - 21$$

5. $(3x - 5)(8x + 8)$

$$(3)(8)x^2 + (3)(8)x + (-5)(8)x + (-5)(8)$$
$$(24)x^2 + (24)x + (-40)x + (-40)$$
$$24x^2 - 16x - 40$$

FOIL the expressions shown below:

6. $(-2x+3)(7x-5)$

$$(-2)(7)x^2+(-2)(-5)x+(3)(7)x+(3)(-5)$$
$$(-14)x^2+(10)x+(21)x+(-15)$$
$$-14x^2+31x-15$$

7. $(9x-5)(5x+7)$

$$(9)(5)x^2+(9)(7)x+(-5)(5)x+(-5)(7)$$
$$(45)x^2+(63)x+(-25)x+(-35)$$
$$45x^2+38x-35$$

8. $(-7x+5)(4x+8)$

$$(-7)(4)x^2+(-7)(8)x+(5)(4)x+(5)(8)$$
$$(-28)x^2+(-56)x+(20)x+(40)$$
$$-28x^2-36x+40$$

9. $(9x-5)(-9x-5)$

$$(9)(-9)x^2+(9)(-5)x+(-5)(-9)x+(-5)(-5)$$
$$(-81)x^2+(-45)x+(45)x+(25)$$
$$-81x^2+25$$

10. $(-8x+5)(-9x-8)$

$$(-8)(-9)x^2+(-8)(-8)x+(5)(-9)x+(5)(-8)$$
$$(72)x^2+(64)x+(-45)x+(-40)$$
$$72x^2+19x-40$$